Cicindela ancocisconensis (White Mountain Tiger Beetle)

Report Date: January 13, 2016

Priority 2 Species of Greatest Conservation Need (SGCN)

Class: Insecta (Insects)

Order: Coleoptera (Beetles)

Family: Carabidae (Ground Beetles)

General comments:

Found only at 7 river sites (comprised of 19 documented occurrences; globally rare; specialized stream habitat

Species Conservation Range Maps for White Mountain Tiger Beetle:

Town Map: <u>Cicindela ancocisconensis_Towns.pdf</u>
Subwatershed Map: <u>Cicindela ancocisconensis_HUC12.pdf</u>

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation: NA

State Special Concern or NMFS Species of Concern:

Cicindela ancocisconensis is listed as a species of Special Concern in Maine.

Recent Significant Declines: NA

Regional Endemic: NA

High Regional Conservation Priority: Northeast Regional Synthesis (RSGCN): Responsibility: High, Concern: High

High Climate Change Vulnerability: NA

Understudied rare taxa:

Recently documented or poorly surveyed rare species for which risk of extirpation is potentially high (e.g. few known occurrences) but insufficient data exist to conclusively assess distribution and status. *criteria only qualifies for Priority 3 level SGCN*

Notes: Found only at 7 river sites (comprised of 19 documented occurrences; globally rare; specialized stream habitat

Historical: NA

Culturally Significant: NA

Habitats Assigned to White Mountain Tiger Beetle:

Formation Name Freshwater Aquatic

Macrogroup Name Rivers and Streams

Habitat System Name: Headwaters and Creeks Notes: River sand and gravel bars and banks

Habitat System Name: Medium River **Notes:** *River sand and gravel bars and banks* **Habitat System Name:** Small River **Notes:** *River sand and gravel bars and banks*

Formation Name Grassland & Shrubland

Macrogroup Name Lake & River Shore

Habitat System Name: Lake & River Shore Macrogroup - Unknown Habitat System **Primary Habitat** Notes:

Primary, river sand and gravel bars and banks

Stressors Assigned to White Mountain Tiger Beetle:

Stressor Priority Level based on Severity and Actionability

	Moderate Severity	High Severity
Highly Actionable	Medium-High	High
Moderately Actionable	Medium	Medium-High
Actionable with Difficulty	Low	Low

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IUCN Level 1 Threat Other Options

IUCN Level 2 Threat: Lack of knowledge

Severity: Moderate Severity **Actionability:** Highly actionable

Notes: Lack of comprehensive survey and monitoring effort to understand population status & trends and ID additional

Report Date: January 13, 2016

occurrences

IUCN Level 1 Threat Human Intrusions and Disturbance

IUCN Level 2 Threat: Recreational Activities

Severity: Moderate Severity **Actionability:** Moderately actionable

Notes: Camping and other activities on sand bars, cobble bars, and sand banks where this beetle occurs could threaten it

IUCN Level 1 Threat Natural Systems Modifications

IUCN Level 2 Threat: Dams and Water Management-Use

Severity: Moderate Severity Actionability: Moderately actionable

Notes: Construction of dams on rivers where this beetle occurs could have catastrophic effects on local populations

IUCN Level 1 Threat Residential and Commercial Development

IUCN Level 2 Threat: Housing and Urban Areas

Severity: Moderate Severity **Actionability:** Moderately actionable

Notes: Development and accompanying increase in human activities on river cobble bars, sand bars, and banks can

threaten this species

IUCN Level 1 Threat Climate Change and Severe Weather

IUCN Level 2 Threat: Storms and Flooding

Severity: Moderate Severity Actionable with difficulty

Notes: Very severe floods could damage or destroy habitat on rivers where this beetle occurs

Species Level Conservation Actions Assigned to White Mountain Tiger Beetle:

None. Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.